25X1 25X1

## NOT RELEASABLE TO FOREIGN NATIONALS

### PLASTICS AND SYNTHETIC FIRERS IN POLAND

ORGANIZATIONAL COMPOSITION OF PRODUCTION, CONTROL OF SALES AND IMPORTS AND EXPORTS OF PLASTICS AND SYNTHETIC FIBERS IN POLAND

The 24th International Trade Fair at POZNAN, which took place between 3 and 24 July 1955, included as participants, several Polish organizations and offices, which also represented the Polish plastics and synthetic fiber industries.

The Polish CIECH Foreign Trade Enterprise of WARSAW, ul. Jasna No 12, was officially responsible for the export of Polish plastics, as well as for the import of semi-finished products for the industry. The responsible official of the CIECH Enterprise was a Mr. JURCZAK of the Chemistry Section.

The import of finished plastic articles appears to be the responsibility of the VARIMEX Foreign Trade Enterprise of WARSAW, Wilcza 50/52.

The CeTeBe national enterprise of LODZ, ul. Narutowicza 13, is responsible for the import and expert of all manner of synthetic fibers.

|   | 25X1 |
|---|------|
|   |      |
|   |      |
| The central management of the plastics industry (production) is located |      |
| the CENTRALNY ZARZAD PRZEMISLU TWORZYW SZTUCZNYCH, Gliwice, ul.         |      |
| MCIESTWA, 21. (Central Office of the Plastics Industry). The Central    |      |
| fice is directed by Engineer KULBINGER.                                 | 2    |
| <u> </u>  |      |
|   | 2    |
| The Central Office is the final authority for                           | 2    |
| ll intended imports of raw materials and machines for the plastics      |      |
| dustry and consequently has the right to issue the necessary directives |      |
| the CIECH Enterprise.   |      |

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|--|-----------------|
| plastic laminates) is responsible for supplying the Polish internal  |                 |
| trade sector.  | 25X1            |
| The office was represented at  | 25X1            |
| the trade fair by Engineer Zielewski (phonetically). The Katowice of   | ,<br>fice       |
| is also responsible for supplying Polish manufacturers, who process p  | lastics         |
| materials into finished products, with plastic laminates.  |                 |
| A Postation synthetic fiber industry a quality control station in Lo   | 00z/            |
| Tomassow was represented at the trade fair by a Mr. NENTWICH.  | 25X1            |
|  | 25X1            |
|  |                 |
| The general director of the synthetic fiber industry is Mr. SOBO   | THEFT           |
| ·  | •               |
| who has had the position he now has for only one year. His technical   | director 25X1   |
| is Mr. GILINSKI,   | 25X1            |
|  |                 |
|  |                 |
| The above general directors are in the position to pass on perting message for the foreign.  | ment            |
| directives to their trade offices. They are only responsible to the  | iarsav          |
| PKFD Ministry [probably PKFG, State Economic Planning Commission].   |                 |
| The METALEXPORT Enterprise of Warsaw, Mokotowska 49, imports and   |                 |
| exports machines for the synthetic fiber industry. This enterprise is  | 3               |
| represented by Engineer WIECEK and B. GRYNBLAT.  |                 |
|  |                 |
| PRODUCTION AND SUPPLY SITUATION IN THE PLASTICS INDUSTRY   |                 |
| A. The Exhibited Products  |                 |
| Without exception, the products exhibited at the Trade Fair were,  |                 |
| of second quality.   | Polish 25X125X1 |
| plastics industry, judging by the products exhibited, is to-day at the   | same            |
| level the German industry was in 1948. The Polish plastics industry was  | as,             |
| according to various statements, created only in 1951. Its future dev  | /elopment       |
| suffers greatly through the lack of qualified personnel and the absence  | se of           |
| closer contact with the developments in plastics industries  | 25 <b>X</b> 1   |

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|--|---------------|
| NOT RELEASED TO TOREIGN NATION.  With reference to Polish trade literature,  | 25X1          |
| one brochure on phenolic resins and a three-volume 1953 edition  | 25X1          |
| of a work plastic materials and elastomers are available.  | 25 <b>X</b> 1 |
| CULBIN   | 25)           |
| Plastv   |               |
|  | 25)           |
| The products exhibited at the trade fair can be divided into three   |               |
| groups, according to which a clear determination can be made as to   |               |
| there the emphasis in production has been placed:  |               |
| l. Various types of compositions for molding   |               |
|  |               |
| 2. PVC products  |               |
| 3. Products made of fabric-backed plastics or paper impregnated with   |               |
| plastic resins. Other plastics, such as metacrylic resin sheets, inject:   | Lon           |
| solding compositions, do not seem to have reached any great significance   |               |
| in production, as yet.   |               |
| In general, the following types of products were exhibited:  |               |
| Hard PVC parts, such as sheets pipes; a pickling plant for   |               |
| calvanizing; rods up to about 30 millimeters in diameter; matrixes;  |               |
| earpet beaters; photo trays, and fan parts; single-color, soft PVC foils   |               |
| which were streaked and their colors were not resistent to light; also   |               |
| ringle-color soft PVC sheet which showed no special luster, probably   |               |
| and the contract of the contra | l <del></del> |
| ue to faulty press plates; fabric-backed PVC guide strips with complete  | -7            |
| ue to faulty press plates; fabric-backed PVC guide strips with complete  | - <b>J</b>    |
|  | 25X1          |

purchasers of the material insisted on the quality shown, since it would otherwise not be suitable for the interiors of railroad cars, molaed parts, such as plates, an obsolete radio housing, a telephone, numerous electrical small parts, household articles; "Resolan" rods and sheets; metacrylate resin plates; "Mika" sheets (the "Mika" is imported from China);

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| 1130 SHEWN.        | mul Killanahil U TUKLEN inder the trade names of "Melaform Pinade of these materials made a poor            |  |                      |
|--------------------|---|--|----------------------|
| 9 11               | clean and the finished products did   | not have a smooth                              | 25 <b>X</b> 1        |
|                    | melamine resins were still are scheduled for production from  | ·  |                      |
|                    | •   |  | 25 <b>X</b> 1        |
| Much space w       | as devoted to products which  | go under the name                              | 25 <b>X</b> 1        |
| pressed plywoods.  |   | of all the                                     | 25X1                 |
| facilities in fac  | the Poles were able to fall back us tories built during the war.  shown are clamping plates, partiall       | production                                     | <sup>25X1</sup> 25X1 |
| design; complete i | barrels; [composition] gears and commally made up of individual parts; leters in diameter); shuttles, and v | plete sliding linkages<br>arge and small rings | ,                    |
| These article      | es are distributed by PAGED.  |  | 25 <b>X</b> 1        |
| unde               | er the jurisdiction of KULBINGER,   |  | 25X1                 |
| located in the che | ticles are known under the name of " emistry display but in the Wood and i products similar to "Textolit".  |  |                      |

general, they are products similar to "Textolit".

"Textolit" is manufactured in Gliwice. A particular shortage for the production of this commodity exists in the pigments, which have to withstand temperatures of up to 160 degrees during pressing. Such "Textolit" products

as wheels, plates, bearing linings for rolling mills, etc., were exhibited.

It has been attempted to provide holes for the bearing linings, in order to render them self-lubricating, but this problem has not yet been colored

to render them self-lubricating, but this problem has not yet been solved.

paper

Air pumps, made of/impregnated with phenol resin were also shown.

These products are manufactured in large quantities and are being exported.

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| "Textolit" miner's helmets were shown, which sell in Poland for  |               |
|--|---------------|
| 50 zloty. Since the domestic market for these helmets has already been   |               |
| saturated, it is desired to export them. Their quality appears to be quite   |               |
| good. The interior fittings however (the protective leather bands) does  |               |
| not correspond to standards.   | 25 <b>X</b> 1 |
| Combs and ball-point pens made of polyamide were also shown. In addition, a WARSAW factory is manufacturing bearing eages of polyamide, a material which | ,             |
| is obtained as a waste product in the manufacure of synthetic fibers.  |               |
| An exhibit of 2-meter long, 250-millimeter diameter pipes, which appear  |               |
| to be made of paper strips coated with phenolic resin, made a very good  |               |
| impression. a very impressive type of article,   | 25 <b>X</b> 1 |
| whose real value however, would have to be judged by a expert in this field.   |               |
| B. The Plastics Raw Material Situation  1. P.V.C.  |               |
| A semi-technical PVC plant is in operation. The material it produces is  |               |
| not yet without fault, since it shows great differences in the degree of   |               |
| polymerisation. Consequently, Poland imports considerably quantities of  |               |
| grades "R" and "P" PVC from SCHKOPPAU.   |               |
| The demand for hard PVC sheets cannot be covered.  | 25 <b>X</b> 1 |
| due to the shortage of pressing sheets (Pressbleche) for the required  |               |

due to the shortage of pressing sheets (Pressbleche) for the required thicknesses. It is anticipated that, in the very near future, some perfect PVC raw material will be produced and the demands made by Mr KULBINGER were likewise directed primarily at the procurement of equipment for the preliminary processing of PVC items.

The utilization of hard PVC for corrosion protection, or in the chemical industry, appears to be in its infancy, since the people here are very conservative, Hence, no great use is made of extruded hard PVC pipes with a diameter of approximately 100 millimeters.

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Soft PVC sheet material with moderate luster constitutes a new product.

Most probably, vacuum-molded hard PVC parts have already been manufactured. However, there was no trace of thin hard PVC sheets being used for packaging purposes anywhere.

### 2. Polyaethylene

| A polyaethylene lactory, with      | a capacity of 10,000 tons per year will     |               |
|------------------------------------|---|---------------|
| be established. Mr. KULBINGER had  | a personal interest in this matter.         | 25 <b>X</b> 1 |
| the                                | production of polyaethylene was not         | 25X1          |
| being planned until 1960. Current  | ly, Poland neither produces nor processes   |               |
| polyaethylene.                     |   |               |
| 3. Methacrylic resins              |   |               |
| Methacrylic resins are being       | manufactured in limited quantities in       |               |
| Poland and are processed into shee | ts.   | 25 <b>X</b> 1 |
|                                    | The product appears to be put               | 25 <b>X</b> 1 |
| to exclusive military use.         | cabin and cockpit bubbles                   | 25 <b>X</b> 1 |
| for gliders. The material was of   | Polish manufacture and showed definite      |               |
| distortions.                       | first quality sheets of Polish manufacture, | 25X1          |
| displayed at a stand at the trade  | fair  |               |

### 4. Polystyrene

Polystyrene is manufactured in Poland in small quantities. The production of this item is scheduled for expansion furing the next 2 years.

### 5. Phenolic, Urea, and Melamine resins

It is hoped that the above commodities will be available for export in small quantities next year. Experiments with the production of laminated two- and three-layer sheets, manufactured from urea plastics, are in progress. These sheets are supposed to be suitable for engraving (somewhat similar to the "Astralon" process.) One ton of phenolic resin, depending on quality, costs 10 - 38,000 gloty in Poland. This information is not reliable.

### 6. "Palatol" plasticiser

In the near future, sufficient quantities of the above items will be available to satisfy domestic demand.

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| Tricresylphosphate is being produced in limited quantities.  | <b>.</b>       |
|--|----------------|
| Dibutylphthalate and diectylphthalate are imported   | 25 <b>X</b> 1  |
| from the Huels Chemical Works.   | 25X1           |
| dibutylphthalate is either already being produced in Poland or is scheduled  | 25 <b>X</b> 1  |
| for production shortly.  |                |
| 7. Polyvinyl alcohol and polyvinyl acetate production is not being   |                |
| planned until 1960.  |                |
| 8. Hexamethylentetramine is being produced by the DZIERZYNSKI Works  |                |
| in TARNOW.   |                |
| 9. Orthotoluidine and aniline salt are being produced in ZAROWJEW.   |                |
| 10. "Textolit" pressings and impregnated fabric strips are being produc  | o <b>e</b> d   |
| in GLIWICE. It is believed that, should sufficient polished pressing sheets  | s be           |
| available, production could be increased by 400 tons of "Textolit" sheets [  | terms          |
| of reference not given.].  |                |
| 11. "Resolan"  |                |
| "Resolan" is being offered in sheets or rods. The exhibit at the fair  |                |
| contained "Resolan" table tops, most of them 2 centimeters thick.  | 25X1           |
|  | 25X1           |
|  | 20/(1          |
| 12. Polyester resins   |                |
| •  | <b>8</b> 8     |
|  |                |
| These items are being manufactured in Poland. Processing of fiber-gla  |                |
| materials has not yet been planned. There is primarily a shortage of fiber   |                |
| materials has not yet been planned. There is primarily a shortage of fiber glass. Polyester resins production so much in its infancy that no-one even  |                |
| materials has not yet been planned. There is primarily a shortage of fiber   |                |
| materials has not yet been planned. There is primarily a shortage of fiber glass. Polyester resins production so much in its infancy that no-one even  | red            |
| materials has not yet been planned. There is primarily a shortage of fiber glass. Polyester resins production so much in its infancy that no-one even entertains the thought of importing fiber-glass or even the equipment requifor the production of the resins. | <b>red</b> 25X |
| materials has not yet been planned. There is primarily a shortage of fiber glass. Polyester resins production so much in its infancy that no-one even entertains the thought of importing fiber-glass or even the equipment requi                                  |                |

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displayed.

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13. Dye stuffs

Dyestuff containers carried the inscription "BORUTO SGIERZ" (Chrome and migrin dyestuffs).

| The Poles believe that they have made good progress in the | lacquer |
|--|---------|
| field (NOVOLAKY).  | 25X1    |
|  | 25X1    |

In GRODZISK, acetone and sodatypes [sic], as well as methyl chloride are being produced.

### THE SITUATION IN THE FINIS OF PRANTICS MACRITURE

### Hydraulic Presses

Hydraulic presses are being imported from Czechoslovakia and, more recently, also being produced in POZNAN. Such presses bear a manufacturer's plate with the inscription "GLIWICE" and the model number "P-100." The machines have an operating pressure of 100 tons and the table measures 650 x 650 centimeters. The maximum distance between table and punch is 700 millimeters. The presses exert pressures ranging from 25 - 200 atmospheres.

With a listed pressure of about 150 kilograms per square centimeter, small melamine resin parts were being pressed on the exhibited press and distributed to the public.

The outside dimensions of the exhibited press are very large; the press is more than 2 meters tall and 1.5 meters wide. The press is a prototype, of which 20 pieces are to be manufactured this year and possibly 30 next year. In their correct perspective, these claims appear to be somewhat questionable but were actually made to me.

### Injection molding machines

Such machines, and particularly a "30-g" injection molding machine similar to the ECKERT & ZIEGLER product, are being manufactured in POZNAN. At the fair, polystyrene egg spoons were being cast in a double mold for demonstration purposes.

Patterns for injection molds and presses are manufactured in a factory in POZNAN.

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NUL DELEVE The various tools did not make a favorable impression. they were not clean-cut. Similar tools are also being manufactured by the individual plastics fabricating plants. Frequently, equipment and tools are designed to take up too much material; they are deliberately oversized, so that the factory can use as much plastic material as possible in their production and thus be able to comply with the plan figures calling for relatively high plastic material consumption. 25X1 powdered material for pressing was frequently passed right into the presses, without pre-heating or tablet forming since the necessary machinery was not always available. Similar procedures have also been adopted with PVC sheets, in that plastic materials were spread between the press plates. 25X1 25X1

The "P-100" press is manufactured by the STALIN Works in POZNAN.

One or more heavy duty presses for hard PVC pipes, approximately

100 millimeters and 2 meters long, are also on hand.

A large phosphate fertilizer plant, which was established during the war by ROMAN MAYER, is located in POZNAN.

the plant has been expanded by the addition of at least one, but possibly more, large shops.

POLISH REQUIREMENTS IN THE PLASTICS INDUSTRY

#### A. <u>Unofficial</u>

There is a great shortage of specialists, press sheets, and dyestuffs.

### B. Official:

Tablet presses for plastics; HF preheating instruments for plastics; PVC foil drawing calenders; PVC kneading and mixing machines (like the BUSS or the BANBURY); Snail injection machines (150 millimeter diameter) for the production of hard PVC pipes; four-color printing machines for PVC foils; vacuum-molding machines; automatic injection molding machines with more than "60-g" injection pressure (Schussgewicht); HF welding machines for processing soft PVC products (probably already delivered by KORTING); DOP plasticizers

| A PROPERTY OF THE PROPERTY OF | CO PARTATI STATIONALO            |
|---|----------------------------------|
| NOT RELEAS.  (definitely already delivered by HUELS); PVC slide fast  |                                  |
| fabrics; PVC foils; PVC flooring; granulated polyaethyl   | ene; tube-form                   |
| polyaethylene foils for the production of bags; WIP well  | ding machines                    |
| for welding polyaethylene foils; a printing press for p   | rinting table                    |
| cloths in one operation; rentals of press and injection   | molding patterns                 |
| and molds (much interest in this matter); asbestos-fill   | ed plastics for                  |
| flooring or brake linings   | for brake 25X1                   |
| linings); finished costume jewelry, household articles,   | toys, and other                  |
| items of injection-molded plastics; ("Styroflex" foil (a  | lready being                     |
| delivered by the NORDDEUTSCHE SEEKABEL Works).  |                                  |
| It is not very difficult to recognize which ones of   | f the above                      |
| requirements are genuine and where it is a matter of si   | mply gathering                   |
| competition materials [bids] in an effort to straighten   | out Polish                       |
| production.   |                                  |
| PRODUCTION AND SUPPLY SITUATION IN THE SYNTHETIC  |                                  |
| In the same exhibition hall, various textiles and   | -                                |
| were also shown. They were suitings with casein fiber   | •                                |
| draperies with "Perlon" admixtures; various yarns and la  | 0574                             |
| unspun fibers based on casein and cellulose staple fiber  | 25X1                             |
| 3   | 20/(1                            |
| 1. TOMASZOW   | and the moving got that          |
| Cellulose staple fiber and cellophane are manufactor  |                                  |
| are not of weather-proof quality.   | production-wise, <sup>25X1</sup> |
| weather-proof fabrics could be produced in Poland without   | ••                               |
| such production is not being undertaken because of a cer  |                                  |
| passive resistance among leading workers. The people at   | • •                              |
| to work harder, because of the extraordinarily low stand  |                                  |
| The cellophane foil is called "Folia Tomaszowa."  | 25X1                             |
|   | 25 <b>X</b> 1                    |

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this product was considerably "wavy" (wellig).

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25X1

### 2. JELENIA GORA

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| The Foles have built a cellulose staple fiber plant in Jelenia Gora.                  |               |
|---|---------------|
| Plant equipment for this installation was also imported from Csechoslovakia.          |               |
|   | 25X           |
| This price was too high for the Poles.  | 25 <b>X</b>   |
| They attempted to build the factory themselves. They used plans,                      | 25 <b>X</b> 1 |
| at least those which they possessed at the time                                       | 25 <b>X</b> 1 |
| The plant was accordingly built and, after it was in operation,                       | 25 <b>X</b> 1 |
| come very poor results were evident. Consequently, the WARSAW ministry is             |               |
| now inclined not to place similar orders for the construction of industrial           |               |
| nstallations with Polish construction enterprises, but to permit the                  |               |
| actories to be built by foreign firms.  | 25X1          |
| did not come to a nead.  Clasco regarding Jelenia Gora was ustable until 2 weeks ago. |               |
| The Germans delivered an installation for the production of "Perlon"                  |               |
| Currently, Jelenia Gora produces about 2,000 kilograms of single-strand               |               |
| Perlon" per month. The product is used for fishing lines and woven purses.            |               |
| The waste is used in the production of brushes.                                       |               |
| The manufacture of "Perlon" at Jeknia Gora is supposed to be halted and               |               |
| ransferred to GOROWO ILAWECKIE.   |               |
| GOROWO ILAWECKIE  |               |
| The rayon factory in GOROWO ILAWECKIE was completely dismantled by the                |               |
| tussians and even the power cables were ripped from the ground. With the aid          | l             |
| of the eastern zone [GDR?] the plant was rebuilt. The Poles want to increase          | )             |
| the production of "Perlon" at the plant and possibly intend to introduce              |               |
| the production of acetate fibers, which are not being produced anywhere in            |               |
| Coland as yet. The "Perlon" fibers produced at GOROWO ILAWECKIE are called            |               |
| Polan; those produced at Jelenia Gora are called "Steelon."                           |               |
| the trade mark designations appear  | 25X1          |
| comewhat unclear. "Perlon" ladies' hose bearing the trade mark                        | 25 <b>X</b> 1 |
| 'Polfa," and produced by a factory in STARGARD. The price of the hose was             |               |
| 50 sloty  | 25 <b>X</b> 1 |

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Approved For Release 2008/01/11: CIA-RDP83-00418R003000300002-2 The production of acetate fibers, according to Mr. NENTWICH, is 25X1 currently not yet an actuality and probably will not be started until 1965. the domestic demand for "Perlon" in Poland 25X1 is being covered y Polish production. This opinion may be correct, since the Poles are not familiar with the concept of "stimulating-demand" (Bedarfsweckung). 4. MALKINIA - LYCH [sic] The Poles have planned a new cellulose staple fiber plant or a cellulose 25X1 plant in MALKINIA or in its immediate vicinity this will be a cellulose staple Biber plant.) there is a tendency to locate industrial 25X1 plants in eastern Poland. 5. STARGARD It is possible that it is planned to erect a "Perlon" processing plant in STARGARD, since the town already has a number of hosiery mills which produce ladies hose under the trade name of "Polfa." Information on this topic was not clear. "Perlon" hose production is centered mainly on the manufacture of 40 denier hose. The Polish mills operate on the three-shift system. 6. LODZ 25X1 Casein fibers are manufactured in LODZ, 25X1 The fibers are added to woolens used in the production of clothing and have proven very satisfactory, provided the mixture does not

exceed 25 percent casein fibers. Frequently, however, the ratio is increased to as much as 40 percent. The fibers are reportedly very springy and are marketed under the name "Vipolan." The above information originated

with Mr. NENTWICH. The above plant is reportedly the only casein fiber plant

25**X**1

[in Europe?] other than corresponding plants

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|---|------------------|
|   | ITIONALS         |
| LODZ is also a center for the manufacture of "LFMJ" yarn-stretchin      | <b>g</b><br>25X1 |
| equipment (Streckswirnanlagen), winding machines, etc.                  | 25X1             |
| these machines were not good, since it was very difficult for Poli      | <b>sh</b> 25X1   |
| enterprises to obtain replacement parts. the metal                      | 25/1             |
| used in these machines was as "soft as butter."                         |                  |
| Cellulose fiber yarn is also manufactured in LODZ.                      |                  |
| MISCELLANEOUS   |                  |
| "Perlon" hose is mostly manufactured in 40 denier.                      |                  |
|   |                  |
| Cellulose staple fiber is mostly manufactured in 300 denier.            |                  |
| One of the exhibition halls [at the trade fair] was covered with        |                  |
| corrugated "Eternit" sheets.  | 25X1             |
|   | 25 <b>X</b> 1    |
| The Russian pavillion contained an exhibit of phenol plastic beari      | ag .             |
| linings, which reaked excessively of phenol. An exhibit of pink polyst  | rene             |
| blocks, marked "I - 8" was also shown, as were small "Plexiglass" tank  |                  |
| advertisement, toys, etc., somewhat like our quality was in 1949.       | 75X1             |
| auvertisement, toys, etc., somewhat like our quarity was in 1949.       |                  |
| Synthetic waxes are manufactured at KEDZIERZYN.                         |                  |
|   |                  |
|   | the 25X1         |
| field of building and equipping cellulose staple fiber plants in Poland |                  |
|   | 25X1             |
|   |                  |
| Poland has Cotton (?) machines; & Sollows two 61-gauge; three to        | four             |
| 59-gauge; six to seven 50 plus-gauge; all the rest are 48 or 46-gauge.  |                  |
|   |                  |
|   |                  |
|   | 25 <b>X</b> 1    |
|   | 25 <b>X</b> 1    |
| Finished products are expected in quantity                              | 25X1<br>25X1     |

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This probably

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Finished products are exported in quantity

means primarily fabrics.

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Poland also manufactures 15-denier "Perlon" fabors.

The Poles have purchased 20 "Dobson" or "Thopson" machines.

There is a shortage of cotton linters. Cellulose linters, which are being used in their place, result in a yellowish color.

|  | experiments with new     | 25 <b>X</b> 1                  |
|--|--------------------------|--------------------------------|
| synthetic fibers are constantly being conducted.     | possible                 | 25 <b>X</b> 1<br>25 <b>X</b> 1 |
| "Orlon."   |                          | 25X1                           |
|  |                          | 25X1                           |
|  |                          |                                |
|  |                          | 25X1                           |
|  |                          | 057/4                          |
|  | the Polish               | 25 <b>X</b> 1                  |
| Metalexport" Foreign Trade Enterprise wishes to      | cooperate with a         | 25.                            |
| nterprise which can deliver "Perlon" spinning equ    | ipment to complement the | 1                              |
| ctivities of the Polish winding-machine production   | on industry.             |                                |
| the Poles actually do produce                        | aprolectem. Should this  | 25 <b>X</b> 1                  |
| commodity be imported from another country,          | the                      | 25 <b>X</b> 1                  |
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